19-AA-0040

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. 88-101

REVISED WASTE DISCHARGE REQUIREMENTS
for
CITY OF BURBANK
(CITY OF BURBANK SANITARY LANDFILL NO. 3)
(File No. 72-35)

The California Regional Water Quality Control Board, Los Angeles Region finds:

1. The City of Burbank discharges nonhazardous and inert wastes under waste discharge requirements contained in Order No. 73-31, adopted by this Regional Board on April 12, 1973.

2. The City of Burbank has filed a Report of Waste Discharge and supplementary information with this Board for revised waste discharge requirements under the California Water Code (CWC) and Title 23, Chapter 3, Subchapter 15, Discharge of Waste to Land (Subchapter 15) for the expansion of operations of the City of Burbank Landfill No. 3 (Stough Park Landfill). The City of Burbank Landfill Nos. 1 and 2 operated from 1949 to 1970. Final cover over these areas varies in thickness from 5 1/2 feet to 40 feet.

3. The City of Burbank Landfill No. 3 is an 86-acre site located within the northeast part of the Verdugo Mountains, along the southwest facing slopes, within the City of Burbank. The site is about one-quarter mile north of the intersection of Bel Aire Drive and Cambridge Drive in a small unnamed canyon in the NE 1/4 of Section 2, T1N/R14W, in the SE 1/4 of Section 35, T2N/R14W, and in the SE 1/4 of Section 36, T2N/R14W, S.B.B.&M. within the San Fernando Hydrologic Subarea. Approximately 24 acres of the total site have been partially filled with nonhazardous solid and inert solid wastes. The remaining 62 acres are mountain lands that are undisturbed or have been partially cut for daily cover.

4. The site has a remaining capacity of approximately 5,520,000 tons of nonhazardous solid wastes and inert wastes. At an average disposal rate of 240 tons per day, the site will reach capacity in about 87 years, resulting in a projected closure date of 2077.

5. Geologically, the landfill is underlain by granitic and metamorphic basement rocks of lower Cretaceous to Pre-Cambrian age. Both types of bedrock are highly jointed and moderately to very weathered. There is a thin covering of residual soil and recent alluvium. The alluvium is the result of erosion of bedrock in the upper canyon. Therefore, the mineral composition of the alluvium is similar to the bedrock. Only minor amounts of silts and clays are present, as it is composed generally of coarse sand, gravel, cobbles, and boulders. These geologic materials do <u>not</u> meet the permeability standard of less than $1x10^{-6}$ cm/sec required for Class III landfills in Subchapter 15; therefore, lining of the new areas will be required.

6. There are no known active (or Holocene) faults within the landfill area. There is a major fault that crosses the canyon containing Landfill No. 3. The fault strikes N65°E and 65 to 76 degrees to the southeast. This fault has severely broken the bedrock and formed a zone of secondary porosity about 25 feet wide. Evidence of movement is found only in the basement strata, some 70 to 180 million years old. Younger rock shows no damage; thus, the fault is classified as inactive. The Verdugo Fault is located 3,000 feet downslope of the site, along the lower slopes, or in the alluvium just south of the mountains. The fault is not known to affect Holocene material and, therefore, is considered only potentially active. The nearest active fault is the San Fernando Fault Zone, located 7 miles to the north of the site. This Fault is responsible for the 1971 San Fernando Earthquake (6.5 magnitude).

7. Groundwater is present in the bedrock and alluvium that covers the bedrock below the site. Groundwater in the alluvium is found in the alluvial monitoring well below Landfill No. 2 (located immediately south of Landfill No. 3), but not below Landfill No. 1 which is located south of Landfill No. 2. Groundwater present in the alluvium appears to be the result of percolation of runoff that ponds in the debris basin at the toe of Landfill No. 2, and the runoff basin south of Bel Aire Drive. The volume of groundwater contained in the alluvium and bedrock is known to be small. Groundwater within the bedrock is primarily the result of percolation of precipitation falling on the slopes of the Verdugo Mountains, and to a

lesser degree, a result of infiltration of water from alluvial deposits entering bedrock fractures. Water present in rock fractures is evidenced by three onsite ephemeral springs.

8. A spring collection system was constructed and installed during September through November 1986, to direct spring discharge from the three onsite ephemeral springs, located at the base of the slopes on the north side of the site, to the debris basin located onsite. Eight horizontal drains were drilled at an approximately 5% grade into the hillside. The drains were cased and tied into the drain pipe system. Seepage from these locations has stopped as the area below the horizontal drains has dried up.

9. The landfill is not within a 100 year floodplain.

10. The current revision of Subchapter 15, which became effective November 27, 1984, contains very specific construction, monitoring and operation standards for new landfills, or expansions of existing landfills. The Board has received a Report of Design and supplemental information submitted by the discharger as required by Article 9 of Subchapter 15 which describe measures and programs that will satisfy the requirements in Subchapter 15.

11. The proposed City of Burbank Landfill No. 3 expansion will be lined, developed, and filled in accordance with Subchapter 15 requirements. The expansion will occur up a steep canyon in phases to encompass approximately 62 acres. The elevation of the final grade in the lowest part of the canyon will be approximately 1,200 feet Mean Sea Level (MSL) to a proposed high elevation of approximately 1,850 feet MSL. The final fills will be, on the average, approximately 200 to 300 feet thick, and will be filled in a step-like manner up the canyon. The final fill surface will slope to the south at a grade of 10 per cent. The final fill slope will also slope towards the south at a grade of 2:1 horizontal to vertical.

12. The City of Burbank proposes the use of Crafco 34512 waterproofing membrane to line the 62-acre Landfill No. 3 expansion. Because the expansion will occur up a steep canyon, lining the site with clay would be impractical and substantially more expensive than the proposed alternative. The waterproofing membrane will provide an equivalent protection against water quality degradation as would be provided by the clay. Laboratory permeability testing of the

Crafco 34512 by the manufacturer has shown that single unreinforced layers of the membrane have permeabilities of $1x10^{-9}$ cm/sec or less.

13. The Crafco membrane is a hot-melt, modified, asphalt-rubber material which will be sprayed on the canyon side slopes at temperatures 375°F to 425°F. The surface of the slopes will be prepared so that the membrane will rest on a smooth base for application. The membrane will be sprayed into a layer of polyester reinforcing fabric. This layer is attached to the slopes with anchors and bolts, and overlapped 12" on the sides and the bottom. The membrane will be applied in two successive coverages of approximately 50 mils each with the second coat applied immediately after sufficient cooling time of the first coat. The top half of the fabric will be held up the slope when the first coat is applied, then draped over the bottom half for the second application. Additional sealant will be applied around the eye bolts.

14. A 12" thick protective layer of select soil will be placed between the Crafco membrane and refuse to protect the membrane from damages caused by equipment or any other objects. This select soil layer will not contain gravel-size material larger than 1", or any sharp, angular materials.

15. Site run-on will be directed away from the refuse by perimeter drains proposed for each phase. The proposed perimeter drains will be a minimum of 8 feet wide and 12 inches deep. The proposed drains will be graded a minimum of 4% to 5% to prohibit debris from accumulating in the open channel drains. Following excavation of the proposed drain, the bedrock will be lined with the Crafco rubberized asphalt. A 30 mil PVC membrane will then be placed on top of the Crafco membrane to protect it from damages prior to the installment of a 3" thick gunite over the PVC membrane. The site run-on will drain into a proposed debris basin to be located on Landfill No. 2. Water from this debris basin will empty into the Birmingham Debris Basin at the toe of Landfill No. 2. A channel spillway connects the Birmingham Debris Basin to an open asphalt-concrete channel, which empties into the storm drain in Bel Aire Drive.

16. As proposed in the Report of Design, the proposed perimeter drains will be converted into leachate collection and removal systems (LCRS) at the end of each phase. Prior to burial with refuse, the perimeter drains will have a 4-inch Schedule 80

perforated PVC pipe installed to direct leachate to a proposed leachate holding tank situated on the south side of Lockheed View Drive right next to the future debris basin. To assure that fine materials will not clog the leachate collection and removal system, the trench will be backfilled with filter material and then covered by a filter fabric prior to proceeding to the next phase.

17. Leachate in the holding tank will be tested and properly disposed of. A leak detection system will be installed with the leachate holding tank to detect any leakage.

18. The LCRS will be tested annually to demonstrate that the system is not clogged and operating properly. Testing of the LCRS will be done by introducing a tracer dye into riser pipes connected to the leachate collection drains, extending up the sides of the canyon walls. A riser pipe will be installed for each leachate collection drain constructed. Tests will be performed using only environmentally safe dyes.

19. The proposed Crafco membrane, perimeter drains, and leachate collection and removal systems meet the criteria and requirements contained in Subchapter 15 as equivalent protection standards for classification as a Class III disposal site to receive nonhazardous solid wastes and inert solid wastes.

20. In March 1986, the City implemented a comprehensive ground water monitoring program. It consists of one well upgradient of all sites (Landfills 1, 2 and 3), a proposed well between Landfill 3 and 2, three wells downgradient of Landfill 2 (and 3) but upgradient of Landfill 1, and three wells downgradient from Landfill 1. The proposed well (Well No. 8) will be drilled above the canyon thalweg (deepest point of the canyon), at least 10 feet into bedrock. Ground water monitoring results from the existing seven wells show the presence of small amounts of purgeable organics (probably from landfill gas) in three of the bedrock wells.

21. A landfill gas extraction/recovery system was installed at the landfill. The gas is collected for combustion and conversion into electrical energy. This system will be expanded as the landfill is developed. Collection and combustion of landfill gas for energy recovery would reduce a majority of the methane and reactive organic gas emissions.

22. The landfill lies within the San Fernando Hydrologic Area, which is generally of good quality and is extracted and beneficially used for municipal and domestic supply, industrial service and process supply, and agricultural water supply.

23. The Board adopted a revised Water Quality Control Plan for the Los Angeles River Basin on November 27, 1978. The Water Quality Control Plan contains water quality objectives for the San Fernando Hydrologic Area. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.

24. On August 26, 1985, the Planning Board for the City of Burbank adopted Resolution No. 1664 approving the Conditional Use Permit No. 85-19 for the City's Landfill No. 3 Expansion. The permit authorizes the City to continue operation of the nonhazardous solid and inert wastes landfill, and approving the General Plan Amendment No. 85-1 "involving a change in the land use classification to include "sanitary landfill" as a permitted use in property located within the Mountain Reserve Area".

25. On October 8, 1985, the Council of the City of Burbank approved the General Plan Amendment and adopted Resolution No. 21,431 certifying the Final Environmental Impact Report dated August 13, 1985 for the proposed expansion of Burbank Sanitary Landfill No. 3. The City Council also adopted, on the same day, Resolution No. 21,433 approving the Conditional Use Permit No. 85-19.

26. The provisions of the Public Resources Code (California Environmental Quality Act) have been fulfilled with the Final Environmental Impact Report for the expansion of Burbank Landfill No. 3 dated August 13, 1985.

The Board has notified the discharger and interested agencies and persons of its intent to adopt waste discharge requirements for this discharge pursuant to Section 13263 CWC and has provided them with an opportunity to submit their written views and recommendations.

The Board in a public meeting heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED, that the City of Burbank shall comply with the following:

A. Acceptable Materials

1. The City of Burbank Landfill No. 3 is a Class III landfill.

2. Wastes disposed of at this site shall be limited to nonhazardous solid wastes and inert solid wastes.

3. Nonhazardous solid waste means all putrescible and nonputrescible solid, and semi-solid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, vegetable solid and semi-solid wastes and other discarded solid or semi-solid waste; provided that such wastes do not contain wastes which must be managed as hazardous wastes, or wastes which contain soluble pollutants in concentrations which exceed applicable water quality objectives, or could cause degradation of waters of the state (i.e., designated waste).

B. Water Quality Protection Standards

1. In accordance with Section 2552 of Subchapter 15, the following water quality protection standards are established for this facility:

Parameter	Units	Maximum Value
Total Dissolved Solids	mg/l	600
Sulfate	mg/l	150
Chloride	mg/l	100
Boron	mg/l	0.5
Total Organic Halogens	mg/l	0.5
Carbon Tetrachloride	ug/l	5.0
Tetrachloroethylene (PCE)	ug/l	4.0
Trichloroethylene (TCE)	ug/l	5.0
Vinyl Chloride	ug/l	2.0

2. Water quality protection standards may be modified by the Board based on more recent or complete ground water and/or vadose zone monitoring data, changes in background water quality and/or background soil-pore liquid quality, or for any other valid reason.

3. The compliance point(s) where the water quality protection standards shall apply shall be at the downgradient edge of the waste management area.

4. The discharger shall use the statistical procedures contained in Subchapter 15, Section 2555(h) to determine if there is a statistically significant increase above upgradient monitoring wells and/or background soil-pore samples for any indicator parameter. Upon approval of the Executive Officer, alternative statistical procedures may be used.

5. In the event a statistically significant increase above annual average background concentration is observed for any indicator parameter in the downgradient monitoring wells and/or in the downgradient soil-pore samples, the discharger shall establish a verification program in accordance with Section 2557 and/or Section 2559 of Subchapter 15.

6. The discharger shall institute a corrective action monitoring program if representative analyses of the ground water and/or soil-pore samples show a statistically significant increase above annual average background concentration in any water quality protection standard in downgradient wells and/or in downgradient soil-pore samples in accordance with Section 2558 and Section 2559 of Subchapter 15.

7. The compliance period for which the water quality protection standards are applicable shall be the entire active life of the site and during the closure and post-closure maintenance periods.

C. Prohibitions

1. No designated or hazardous wastes like liquids, oils, waxes, tars, soaps, solvents, or readily water-soluble solids such as salts, borax, lye, caustic, or acids shall be deposited at this site.

2. No materials which are of a toxic nature, such as insecticides, poisons, or radioactive materials, shall be deposited at this site.

3. No hazardous (or special wastes) or radioactive wastes shall be disposed of at this site. However, asbestos, if handled in the manner prescribed by the State Department of Health Services, may be disposed of at this site.

4. The discharge of wastes or waste byproducts to natural surface drainage courses or to ground water is prohibited.

5. No infectious materials and hospital or laboratory wastes, except those authorized for disposal to land by official agencies charged with control of plant, animal, and human disease, shall be disposed of at this site.

6. No pesticide containers shall be disposed of at this site unless they are rendered nonhazardous by triple rinsing.

7. No septic tank pumpage or chemical toilet wastes shall be disposed of at this site.

8. No water shall be used at this site except for landscape irrigation, for road surface dust control and fire fighting. Water used for irrigation of disposal areas shall be applied only on completed lifts in quantities not to exceed those necessary to support plant life and shall be confined to the irrigated areas. The ponding of irrigation water except in designated holding ponds is prohibited.

9. Washing of landfill equipment shall be confined to areas where the wastewater will not percolate into the landfill. Washwater from the washing of refuse or other waste hauling vehicles shall not be permitted to enter the storm water collection system.

10. Except for unadulterated tap water, any waters used for landscape irrigation, dust control or other non-emergency uses, shall be subject to waste discharge requirements.

11. No surface waters shall leave this site except as permitted by a National Pollutant Discharge Elimination System (NPDES) permit issued in accordance with the Federal Clean Water Act and CWC.

12. The gas collection system at this waste management unit and any proposed system expansion shall be designed so that gas condensate is not returned to the landfill.

D. General Requirements for Disposal of Wastes

1. There shall be no damage to the community by odors or unsightliness resulting from unreasonable practices in the disposal of wastes at this site, such that it would create a nuisance as defined in Section 13050(m) CWC.

2. Neither the disposal nor handling of wastes at this site shall create pollution as defined in Section 13050(l) CWC.

3. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements. The Board shall be informed within 7 days in writing when relocation of wastes is necessary. The source and final disposition (and location) of the wastes shall also be reported.

4. Wastes deposited at this site shall be confined thereto, and shall not be permitted to blow off the site or to enter offsite storm water drainage ditches or watercourses.

5. Adequate measures shall be taken to prevent a condition of nuisance from fly breeding, rodent harborage, and other vectors.

6. The migration of gases from the disposal site shall be controlled as necessary to prevent water pollution or nuisance.

7. Any abandoned water wells under the control of the site owner or operator and situated within the influence of the site must be located and properly modified or sealed to prevent vertical movement of any water within the well bore. A notice of intent to decommission a water well must be filed with appropriate regulatory agencies prior to decommissionment. Procedures used to destroy these wells or modify wells still in use should conform to the specification of the local health department or other applicable agencies.

8. In any area within the landfill where seepage water is observed, provisions shall be made and/or facilities shall be provided to insure that seep water will not come in contact with decomposable refuse in this waste management unit. The location of all springs and seeps found during, prior to, or after placement of waste material that could affect this waste management unit shall be reported to the board.

9. Construction standards for containment structures shall comply with Article 4 of Subchapter 15. Any exceptions to these standards must fully meet the standards in Section 2510, parts (b) and (c) of the regulations and be approved by the Executive Officer.

10. Leachate collection and removal systems at this site shall comply with Subchapter 15, Section 2543. The discharger shall have sufficient replacement parts so that in case of failure of any part of the systems, no adverse water quality effects will result.

11. All leachate from this waste management unit shall be intercepted, and pumped out when detected, and properly disposed of.

12. All wastes shall be adequately covered at the end of the operating day.

13. Precipitation and drainage controls, structures, and facilities at this site shall comply with Subchapter 15, Section 2546.

14. The waste management area shall be graded and maintained to promote proper runoff of precipitation and to prevent ponding of storm water.

15. Erosion or washout of deposited materials by surface flow shall be prevented.

16. This site shall be designed to withstand the maximum probable earthquake without damage to the facilities or structures which control leachate, surface drainage, or gas collection systems, or erosion control systems.

17. Regional Board staff shall be allowed entry to the landfill or where records are kept regarding the landfill at any reasonable time. Staff shall be permitted to inspect any area of the landfill and any monitoring equipment used to demonstrate compliance with this Order. Staff shall be permitted to copy any records, photograph any area, obtain samples, and/or monitor to assure compliance with this Order, or as authorized by CWC.

E. Water Quality Monitoring

1. The discharger shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with Section 13267 CWC. Failure or refusal to furnish these reports, or falsifying any information provided therein makes the discharger guilty of a misdemeanor and subject to the penalties stated in Section 13268 CWC. Monitoring reports shall be submitted in accordance with the specifications contained in a Monitoring and Reporting Program prepared by

the Executive Officer. This Monitoring and Reporting Program is subjected to periodic revisions as warranted.

2. The effectiveness of all monitoring wells, monitoring devices, and leachate and gas collection systems shall be maintained for the active life of this site. If any of these wells and/or monitoring devices are damaged, destroyed or abandoned for any reason, the discharger shall provide a substitute to meet the monitoring requirements of this Order. For the purpose of this requirement, "active life" shall mean the entire period during which waste material will be deposited at the site plus the closure and post-closure maintenance periods.

3. The discharger has submitted detailed plans and equipment specifications for compliance with the ground water monitoring requirements of Article 5 of Subchapter 15. The technical report included rationale for the spatial distribution of ground water monitoring facilities (wells or piezometers, etc.) for the design of monitoring points, and for the selection of other monitoring equipment. This report was accompanied by:

a. A map showing the locations of the proposed monitoring facilities; and

b. Drawings and data showing construction details of proposed monitoring facilities. These data included the following:

(i) casing and bore hole diameters;
(ii) casing materials (PVC, stainless steel, etc.);
(iii) depth of each hole;
(iv) size and position of perforations;
(v) method of joining the sections of the casing;
(vi) nature of filter material;
(vii) depth and composition of seals; and
(viii) method and length of time of well development.

The monitoring facilities described in this report have been installed and are currently in operation. Any new or replacement monitoring wells or piezometers installed in the future will require a similar technical report, to be approved by the Executive Officer, prior to installation. This technical report shall also provide for the installation of any new monitoring wells required by the Monitoring and Reporting Program. This technical report shall be submitted at least 90 days prior to the anticipated date of installation of the wells or piezometers. However, if it is a replacement

well or piezometer proposed to replace an inoperative well or piezometer identified in the Well Preventative Maintenance Program below, the discharger shall not delay replacement while waiting for Executive Officer approval. In this case, the technical report should be submitted with the required time schedule.

4. The discharger shall ensure that all of the monitoring wells, piezometers, and vadose zone monitoring devices are in proper operating order at all times. The discharger shall have a Monitoring Well Preventative Maintenance Program approved by the Executive Officer. Elements of the Program shall include at the least periodic visual inspections of the well integrity, pump removal and inspection, etc., plus appropriate inspection frequencies. If a well or piezometer is found to be inoperative, the Regional Board and other interested agencies shall be so informed in writing within seven days after such discovery. When the Board is so informed, the notification shall contain a time schedule for returning the well or piezometer to operating order. The initial Monitoring Well Preventive Maintenance Program will be due to the Board within 60 days after the adoption of this Order. Changes to the Program shall be submitted for Executive Officer approval at least 30 days prior to implementing the change(s).

5. The discharger shall provide for the proper handling and disposal of water purged from the wells during sampling. Water pumped from the wells shall not be returned to that (or any other) well unless appropriate waste discharge requirements have been prescribed, nor shall it be used for dust control or irrigation without waste discharge requirements.

F. Provisions

1. The proposed periodic waste load checking as described in the Report of Design for this expansion implemented immediately to ensure that unauthorized hazardous materials are not deposited at this site.

2. Interim cover is daily cover and intermediate cover as defined by the California Waste Management Board. Interim cover over wastes discharged to this landfill shall be designed and constructed to minimize percolation of precipitation through wastes and contact with material deposited. To this end, ponding of liquids over deposited wastes is prohibited.

3. This site shall comply with all applicable provisions, requirements, and procedures contained in the most recent

revision of the California Code of Regulations, Title 23, Chapter 3, Subchapter 15, "Discharge of Waste to Land," and any amendments thereto.

4. This site shall have containment structures or physical barriers which are capable of preventing degradation of waters of the state as a result of wastes (or their byproducts such as leachate or landfill gas) discharged to this landfill.

5. This site shall be fitted with liners and leachate collection and removal systems which comply with Subchapter 15 in all new areas of operation or the equivalent with Subchapter 15 shall be implemented.

6. The following general criteria for containment structures are applicable to this site:

a. Materials used in containment structures shall have appropriate chemical and physical properties to ensure that such structures do not fail to contain waste because of pressure gradients (including hydraulic head and external hydrogeologic forces), physical contact with the waste or leachate, chemical reactions with soil and rock, climatic conditions, the stress of installation, and the stress of daily operation.

b. Permeabilities specified for containment structures other than cover shall be relative to the fluids, including waste and leachate, to be contained. Permeabilities specified for final cover shall be relative to water.

c. Permeabilities shall be determined primarily by appropriate field test methods in accordance with accepted civil engineering practice. The results of laboratory tests with both water and leachate, and field tests with water, shall be compared to evaluate how the field permeabilities will be affected by leachate. Appropriate compaction tests may be used in conjunction with laboratory permeability tests to determine field permeabilities as long as a reasonable number of field permeability tests are also conducted.

d. Containment structures shall be designed by, and construction shall be supervised and certified by, a registered civil engineer or a certified engineering geologist, certified or registered in the State of California. Facilities shall receive a final inspection and approval of the construction by Regional Board or State Board staff before use of the facility commences.

e. The integrity of containment structures shall be maintained. Excavations made as part of discharge operations shall not result in removal of any portion of a containment structure.

f. Any report submitted under this section or any amendment or revisions thereto which might affect containment features or monitoring systems shall be approved by a registered engineer or a certified engineering geologist.

g. Containment structures shall have a permeability of $1x10^{-6}$ cm/sec or less and shall be suitably compacted to not less than 90 percent relative density at optimum moisture content. Results of permeability and compaction tests shall be reported for review to the Board and other interested agencies prior to disposal in the area relevant to the structures.

h. The liner, leachate collection and side slope protection systems shall be constructed according to the design specifications furnished to this Board by the discharger. The transition zone will be built in accordance with the provisions of the conceptual plan. The lined areas will be constructed according to Subchapter 15 requirements. Any deviation from these design specifications is subject to the Executive Officer's review and approval prior to any construction.

7. The discharger shall follow all procedures in the operation plan describing the landfill operation submitted as part of the Report of Design which included:

a. A description of current or proposed treatment, storage, and disposal methods;

b. Contingency plans for the failure or breakdown of waste handling facilities or containment systems which could have any potential water quality effects, including notice of any such failure, or any detection of waste or leachate in monitoring facilities, to the regional board, local governments, and water users downgradient of the landfill; and

c. A description of inspection and maintenance programs which will be undertaken regularly during disposal operations, the closure, and the post-closure maintenance period of facilities or equipment which could have any potential water quality effects.

8. The discharger shall submit detailed preliminary and as-built plans, specifications, and descriptions for all liners, containment structures, leachate collection and removal system components, leak detection system components, precipitation and drainage control facilities, and interim covers which will be installed or used at the site. The discharger shall submit a description of and location data for ancillary facilities including roads, waste handling areas, buildings, and equipment cleaning facilities. These plans, specifications, etc., shall be updated as the site is expanded and completed. Preliminary plans and specifications shall be submitted at least 60 days prior to construction and as-built plans and specifications shall be submitted within 30 days after completion of construction. If the preliminary plans and specifications and as-built plans and specifications are virtually identical, only change sheets need be submitted in lieu of complete as-built plans and specifications.

9. The discharger shall notify the Regional Board of changes in information submitted in the Report of Waste Discharge and supplementary information, including any material change in the types, quantities, or concentrations of wastes discharged; or site operations and features. The discharger shall notify the Regional Board 120 days before the changes are made or become effective.

10. The discharger within 60 days after adoption of this Order shall submit a plan, to be approved by the Executive Officer, demonstrating compliance with Subchapter 15, Section 2580(f), which requires that the discharger provide for funding to insure that closure and post-closure maintenance activities are properly performed.

11. The Regional Board shall be notified by telephone within 24 hours and in writing within seven days of any slope failure occurring at the landfill. Any failure which threatens the integrity of containment structures shall be promptly corrected after approval of a corrective action plan and time schedule by the Executive Officer.

12. The Regional Board shall be notified in writing within seven days if fluid is detected in a previously dry leachate detection system, a leachate collection and removal system, or if a progressive increase in the liquid volume is detected in the leachate collection and removal system.

13. The Regional Board shall be notified of any incident resulting from site operations that may endanger health or the environment by telephone within 24 hours and in writing within seven days. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence.

14. The owner or operator of this facility shall notify the Regional Board in writing at least 180 days prior to the beginning of final closure activities. The notice shall include a statement that all closure activities will conform to the most recently approved closure plan and that the plan provides for site closure in compliance with all applicable federal and state regulations. In the event closure and post-closure maintenance plans have not been submitted for this waste management area, they shall accompany this notice.

15. The owner or operator of this facility shall notify the Regional Board within 30 days after the completion of final closure activities that closure has been completed. The discharger shall certify under penalty of perjury that all closure activities were performed in accordance with the most recently approved closure plan and in accordance with all applicable regulations. The discharger shall certify that all closed waste management units shall be maintained in accordance with an approved post-closure maintenance plan(s).

16. All State, County and City sanitary health codes, rules, regulations and ordinances pertinent to the disposal of wastes on land shall be complied with in the operation and maintenance of this waste disposal site.

17. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.

18. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge and from gases and leachate that may be caused by infiltration of precipitation or drainage waters into the waste disposal areas or by infiltration of water applied to this property during subsequent use of the land for other purposes.

19. These requirements do not exempt the operator of this waste disposal facility from compliance with any other law which may be applicable. The requirements are not a permit; they do not legalize this waste disposal facility, and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes.

20. Bench marks shall be established and maintained at the site in sufficient number to enable reference to key elevations and to permit control of critical grading and compaction operations.

21. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the operators from his liabilities under federal, state, or local laws.

22. The operators must comply with all of the terms, requirements and conditions of this Order. Any violation of this Order constitutes a violation of the California Water Code, and is grounds for enforcement action, Order termination, Order revocation and reissuance, denial of an application for reissuance, or a combination thereof.

23. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:

    a. Violation of any term or condition contained in this Order;

    b. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;

    c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized waste discharge.

24. The filing of a request by the operators for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any condition, provision, or requirement of this Order.

25. This Order does not convey any property rights of any sort, or any exclusive privilege.

26. The operators shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The operator shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.

27. Order No. 73-31 adopted by this Board on April 12, 1973 is hereby rescinded.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on September 26, 1988.

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 5800
FOR
CITY OF BURBANK SANITARY LANDFILL NO. 3
(File No. 72-35)

I. Reporting

A. The discharger shall implement this Monitoring and Reporting Program beginning October 1, 1988. Monitoring reports shall be submitted to the Board quarterly, by the fifteenth (15th) day of the second following month. The first monitoring report under this program is due February 1, 1989. Subsequent to receipt of the report required by Water Quality Monitoring item E-3 of Order No. 88-101, this Monitoring and Reporting Program shall be revised accordingly.

B. Each monitoring report must affirm in writing that all analyses were conducted at a laboratory certified for such analyses in accordance with Section 13176 of the Water Code and in accordance with current EPA guideline procedures, 40 CFR Part 261, or as specified in this Monitoring Program.

C. For any analyses performed for which no procedures are specified in the EPA guidelines or in this Monitoring Program, the constituent or parameter analyzed and the method or procedure used must be specified in the report.

D. The discharger may submit additional data to the Board not required by this Program in order to simplify reporting to other regulatory agencies.

E. The following items in the attached "General Monitoring and Reporting Provisions" shall be applicable to this program: Items 1,4,5,7,8,9 (with the exception that the report shall be due March 1st of each year),10,11,12,14, and 15.

F. Annual monitoring shall be performed during the month of October. Quarterly monitoring shall be performed during the months of January, April, July, and October.

G. Where the units for a parameter are listed as ug/l (ppb), suitable analytical techniques shall be used to achieve this precision. All minimum limits of detection shall be below the current Action Levels Recommended by the Department of Health Services, Sanitary Engineering Branch, or the minimum limit of detection specified in EPA Methods, or Appendix A, 40 CFR 136, if the Action Level is not achievable.

H. Analytical data reported as "less than" shall be reported as less than a numeric value or below the limit of detection for that particular analytical method (also give the limit of detection).

I. All analytical samples obtained for this Program shall be grab samples.

J. If the discharger performs analyses for any parameter more frequently than required by this Program using approved analytical methods, the results of those analyses shall be included in the monitoring report.

K. The results of the waste load checking program as proposed in the Report of Design shall be reported in each monitoring report. In the event that hazardous wastes are detected, the type, source, and disposition of those wastes shall also be reported.

L. The City of Burbank shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies for a period of at least five years. This period may be extended by request of the Regional Board at any time and shall be extended during the course of any unresolved litigation regarding all or any part of the entire site.

M. Records of monitoring information shall include:

a. The date, exact place, and time of sampling or measurement;
b. The individual(s) who performed the sampling or measurement;
c. The date(s) analyses were performed on the samples;
d. The individual(s) who performed the analyses;
e. The analytical techniques or methods used; and
f. The results of the analyses or measurements.

II. Waste Disposal Reporting

A. The first report to the Board shall include a map of the site and shall indicate the area(s) where disposal will begin. This map shall be updated annually and submitted with the annual report due March 1. If a new area is started, it shall be updated with the corresponding quarterly report.

B. A report containing the following information shall be filed with this Board each quarter:

1. A tabular list of the estimated average monthly quantities (in tons) and types of materials deposited each month.

2. An estimate of the remaining capacity in cubic yards and tons and the remaining life of the site in years and months.

3. A certification that all wastes deposited were deposited in compliance with the Board's requirements, and that no wastes were deposited outside of the boundaries of the waste management area as specified in the Board's requirements.

4. A description of the location of all seeps and springs found at the site (both the new waste management area and the former disposal areas) during the reporting period, with an estimate of seep water flow. Reference to previous reports will be acceptable, except that the annual report shall contain complete descriptions. Flow estimates shall be included in each quarterly report.

5. The estimated amount of water used at the waste management area for landscape irrigation, compaction, dust control, etc., during each month.

6. Quantities of liquid pumped from the leachate holding tanks including dates of removal, and the ultimate point of disposal if other than sewering. If no liquid was detected or pumped during the reporting period, a statement to that effect shall be submitted.

7. If leachate is presented in the holding tank, the annual LCRS testings shall be performed during the first quarter and the resulted of the testings submitted in the following quarter.

III. Ground Water Monitoring

A. Provisions

1. For the purposes of this Program, the terms "Monitoring Well", "Extraction Well", and "Piezometer" are synonymous.

2. The ground water monitoring program must be carried out during the active life of this waste management area, during the closure and post-closure care periods, and during periods when no wastes are deposited at the site.

3. Analytical results for ground water monitoring shall be submitted with the corresponding quarterly waste disposal report. If a well was not sampled (or measured) during the reporting period, the reason for the omission shall be given. If no fluid was detected in a monitoring well, a statement to that effect (in lieu of analyses) shall be submitted.

4. Monthly observations and measurements of the static water levels shall be made on all monitoring wells and records of such observations shall be submitted with the quarterly reports. All monitoring wells shall be sounded each October to determine total depth.

5. Unless otherwise stated, all metals analyses shall be for the total metal, not for the dissolved phase only.

6. The velocity and direction of ground water flow under the waste management unit shall be determined quarterly for the first year, and every third quarter thereafter. ("third" means nine months later, not the July to September quarter.)

7. All monitoring wells shall be equipped with dedicated sampling pumps.

B. Groundwater Well Locations

1. Representative ground water samples shall be obtained from at least the following monitoring wells. The City of Burbank may monitor and submit additional data from other wells if they so choose.

a. Existing Wells

1, 2, 3, 4, 5, 6, and 7

b. New Wells

The City of Burbank shall construct one additional well, Monitoring Well No. 8, at location downgradient of Landfill No. 3 between Lockheed View Drive and Landfill No. 3.

2. The precise locations, depths, well screen lengths and other design criteria for the new groundwater well shall be submitted to the Executive Officer for approval as required by Item E-3 of Order No. 88-~~xx~~. 101

C. Sampling and Analyses

1. The following are the indicator parameters for this facility: Total dissolved solids, chlorides, sulfates, pH, total organic halogens, and COD.

2. Routine quarterly sampling and analyses shall consist of the following parameters:

Parameters	Units
pH[1]	pH units
Electrical conductivity	umhos/cm
Chemical oxygen demand	mg/l
Total dissolved solids	mg/l
Boron	mg/l
Alkalinity[1]	mg/l
Hardness (as $CaCO_3$)	mg/l
CO_2[1]	mg/l
Fluorides	mg/l
Chlorides	mg/l
Sulfates	mg/l
Iron	mg/l
Manganese	mg/l
Total organic carbon	mg/l
Total organic halogens	ug/l
Benzene	ug/l
Trichloroethylene	ug/l
Perchloroethylene	ug/l
Vinyl chloride	ug/l
Carbon tetrachloride	ug/l

[1] Although field determination is the preferred procedure for pH in the presence of dissolved carbon dioxide, pH may be determined in the laboratory if the total elapsed time between sampling and testing is less than 6 hours and the sample is properly sealed during transit. Each report shall certify that these conditions were met if laboratory determination of these parameters was done in lieu of field determination.

3. Once each year, during the month of October, all wells shall be sampled and these samples analyzed for volatiles, semi-volatiles, pesticides and PCB's using EPA Methods 624, 625 and 8080. Methods 601 and 602 may be substituted for 624. All peaks greater than 10%

of the internal standard shall be identified and quantified for gas chromatography analyses. The following heavy metals shall also be determined: Arsenic, Barium, Cadmium, Total Chromium, Copper, Mercury, Nickel, Selenium, Silver, and Zinc. Total cyanides and sulfides shall also be determined.

Ordered By: Robert P. Apkarian
Executive Officer

Date: September 26, 1988

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

GENERAL MONITORING AND REPORTING PROVISIONS

1. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

2. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health.

3. Effluent samples shall be taken downstream of any addition to the treatment works and prior to mixing with the receiving waters.

4. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted.

5. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

6. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period. The volume of each individual sample is proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

7. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

8. By January 30 of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

9. The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; date analyses were performed; analyst's name, analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge of when requested by the Board.

10. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with waste discharge requirements and, where applicable, shall include results of receiving water observations.

11. Monitoring reports shall be signed by:

    a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;

    b. In the case of a partnership, by a general partner;

    c. In the case of a sole proprietorship, by the proprietor;

    d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

12. Each report shall contain the following completed declaration:

    " I declare under penalty of perjury that the foregoing is true correct.

    Executed on the _____ day of _____ at _____.

    _____(Signature)

    _____(Title)"

13. The discharger shall mail a copy of each monitoring report to the following:

    California Regional Water Quality
    Control Board - Los Angeles Region
    107 South Broadway, Room 4027
    Los Angeles, CA 90012

    ATTN: Executive Officer

14. If no flow occurred (or no waste was deposited) during the reporting period, the report shall so state.

15. These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region. Records or reports which might disclose trade secrets, etc., may be excluded from this provision as provided in Section 13267 (b) of the Porter-Cologne Water Quality Control Act, if requested.

STOUGH PARK LANDFILL

LOCATION MAP